Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

Reserve
1
Fg 84M

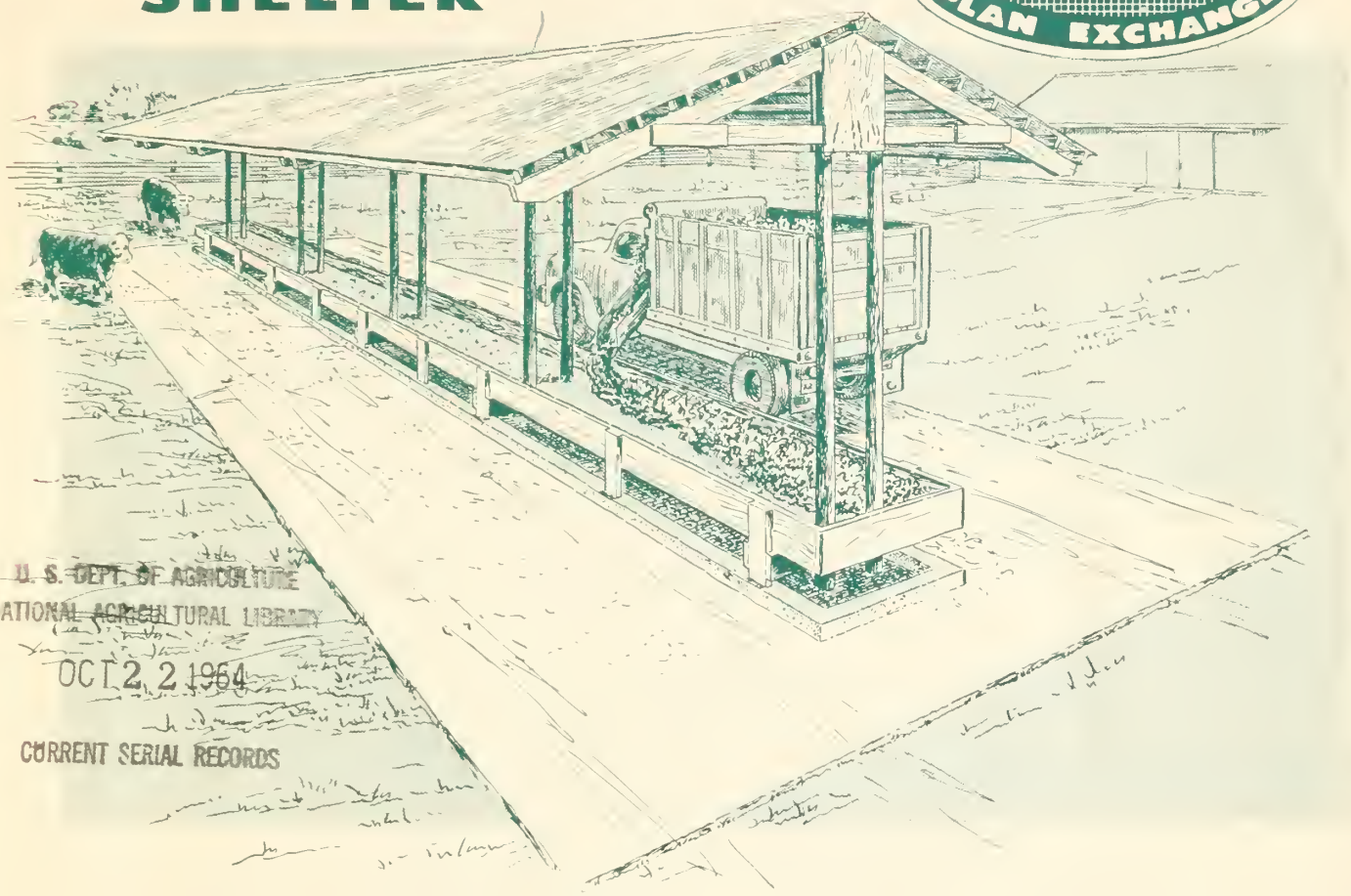
COOPERATIVE FARM BUILDING

Plan No. 5939

(1 - SHEET)

PLAN EXCHANGE

CATTLE FEEDING SHELTER



U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY
OCT 22 1964
CURRENT SERIAL RECORDS

In this covered feeder, poles are placed inside the manger. With this arrangement, the manger can be filled from a self-unloading wagon or truck. If filling with an auger is preferred, the auger can be installed between the poles. Placing the poles inside the manger leaves the curbs along the outside of the manger free of obstructions, and the paved standing area can be scraped with a tractor-mounted blade. The feeder may be built to any desired length in units of 14 feet.

Capacity of the feeder depends on the size of the cattle and the type of feeding. However, each 14-foot section of manger will accommodate about 12 head if the animals all feed at the same time, and from 50 to 100 head if the animals have free access to feed at all times.

Large-scale working drawings may be obtained through your county agent or from the Extension agricultural engineer at most State agricultural colleges. There is usually a small charge.

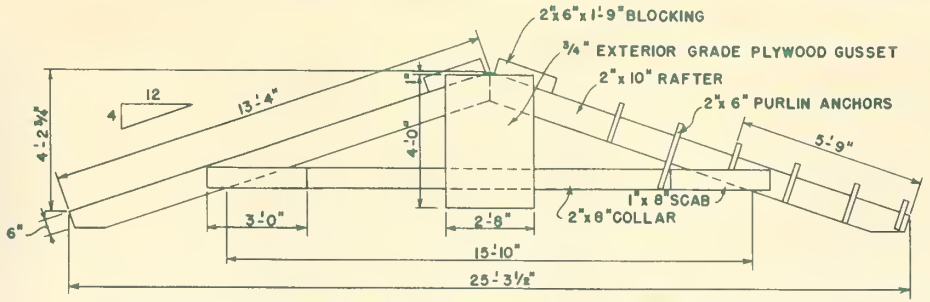
ORDER PLAN NO. 5939 CATTLE FEEDING SHELTER

If the large-scale drawings are not available in your State, write to the U.S. Department of Agriculture, Agricultural Engineering Research Division, Plant Industry Station, Beltsville, Md. The U.S. Department of Agriculture does not distribute drawings, but will direct you to a State that does distribute them.

Washington, D.C. Issued October 1964

UNITED STATES DEPARTMENT OF AGRICULTURE Miscellaneous Publication No. 979

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402 – Price 5 cents

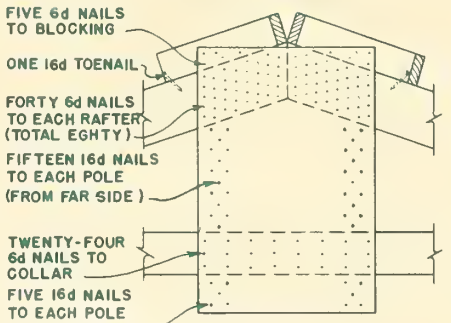


TWO RAFTER-UNITS ARE REQUIRED FOR EACH 14'-0" OF LENGTH. TWO UNITS ON EACH PAIR OF INSIDE POLES AND ONE UNIT ON THE INSIDE FACE OF THE END POLES.

NAIL PURLIN ANCHORS IN PLACE ON RAFTER UNIT-BEFORE ASSEMBLY.

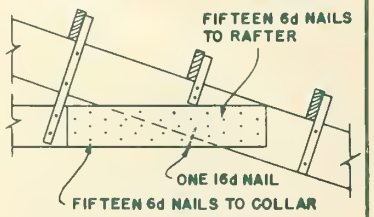
RAFTER-UNIT ASSEMBLY DIAGRAM

SCALE: ⅜" = 1'-0"


FIVE 6d NAILS TO BLOCKING
ONE 16d TOENAIL
FORTY 6d NAILS TO EACH RAFTER (TOTAL EIGHTY)
FIFTEEN 16d NAILS TO EACH POLE (FROM FAR SIDE)
TWENTY-FOUR 6d NAILS TO COLLAR
FIVE 16d NAILS TO EACH POLE (FROM FAR SIDE)

FASTEN EACH END OF PURLINS WITH ONE 16d TOENAIL TO RAFTER AND TWO 12d NAILS TO PURLIN ANCHOR OR BLOCKING. (THIS NAILING NOT SHOWN)

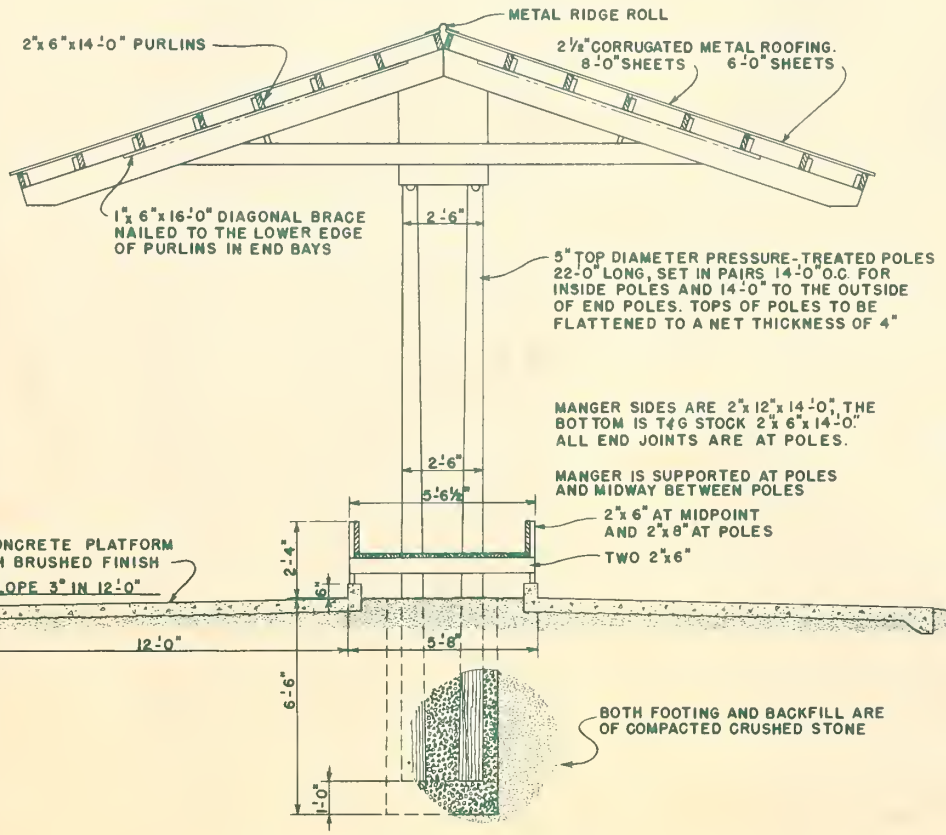
NAIL EACH RAFTER AND COLLAR TO PURLIN ANCHORS WITH TWO 16d NAILS



USE HOT-DIP GALVANIZED COMMON NAILS

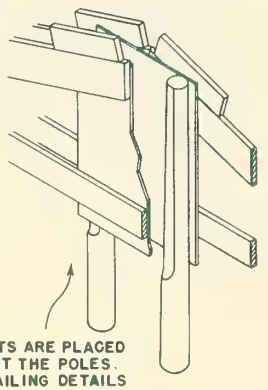
NAILING DETAILS

SCALE: ¾" = 1'-0"

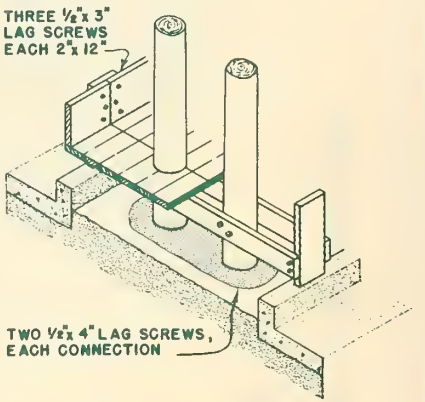

METAL RIDGE ROLL
2"x6"x14'-0" PURLINS
2½" CORRUGATED METAL ROOFING.
8'-0" SHEETS
6'-0" SHEETS
1"x6"x16'-0" DIAGONAL BRACE NAILED TO THE LOWER EDGE OF PURLINS IN END BAYS
2'-6"
5" TOP DIAMETER PRESSURE-TREATED POLES 22'-0" LONG, SET IN PAIRS 14'-0" O.C. FOR INSIDE POLES AND 14'-0" TO THE OUTSIDE OF END POLES. TOPS OF POLES TO BE FLATTENED TO A NET THICKNESS OF 4"
MANGER SIDES ARE 2"x12"x14'-0", THE BOTTOM IS T&G STOCK 2"x6"x14'-0" ALL END JOINTS ARE AT POLES.
2'-6"
5'-6½"
MANGER IS SUPPORTED AT POLES AND MIDWAY BETWEEN POLES
2"x6" AT MIDPOINT AND 2"x8" AT POLES
TWO 2"x6"
5" CONCRETE PLATFORM WITH BRUSHED FINISH
SLOPE 3" IN 12'-0"
2'-4"
6"
12'-0"
3'-6"
6'-6"
1'-0"
BOTH FOOTING AND BACKFILL ARE OF COMPACTED CRUSHED STONE

TYPICAL CROSS SECTION

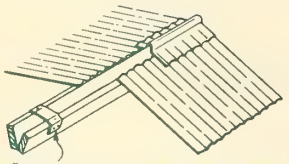
SCALE: ⅜" = 1'-0"



RAFTER-UNIT ERECTION



MANGER CONSTRUCTION



3"x12" SHEET METAL TIES WITH THREE ROOFING NAILS TO EACH PURLIN. USE TWO TIES, 4'-8" O.C. IN EACH BAY.

RIDGE PURLIN TIES

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

AND

UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

CATTLE FEEDING SHELTER

ORE. '62 | EX. 5939 | SHEET 1 OF 1

U.S. GOVERNMENT PRINTING OFFICE : 1964 OF—740-898